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P/053/62/000/008/002/004 1004/1242

AUTHORS:

Blinowski, Andreej and Szysako, Engeniusa

TTTLE:

Improved technology of extracting doped single crystals of germanium on a pilot-plant scale

PARIODICAL:

Praeglad Elektroniki, no. 8, 1962, 451-454

The purpose of this work was to increase the yield and improve the parameters of crystals obtained by the Crochralski method. The stretching should be stopped at a point corresponding to the lower tolerance limit of conductivity. The rest of the charge in the crucible is left for the next stretching operation after addition of the next portion of the charge together with the impurity. In the case of germanium doped with

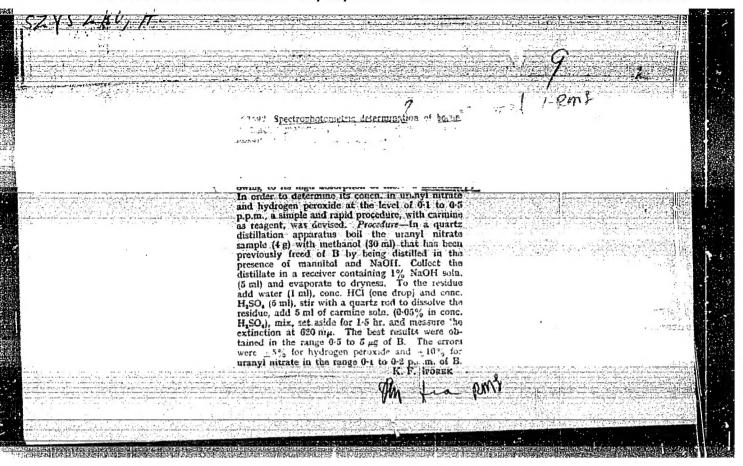
Card 1/3

P/053/62/000/008/002/004 1004/1242

Improved technolo y

antimony this method increases the yield from 25 to 60%, Multiple replenishment of the charge and impurity does not effect the life time of impurity carriers, dislocation density, or spontaneous crystalization in the course of stretching. The life time of impurity carriers varied between 50 to 200 microseconds while the dislocation density varied between 3x103 to 1.2x10-4 cm-2. In order to obtain low dislocation density crystals the seeds were cut in the [111] direction from single crystals with very low conductivity and subsequently annealed at 900°C in an atmosphere of hydrogen for 4 to 8 hours. The results were not reproducible. Low dislocation-density material was obtained by the so called "lengthening" method which consists of pulling crystals of a small diameter, equal to that of the seed. The density of dislocations is increased by a large diameter of the single crystal,

Card 2/3



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NOWICKA-JANKOWSKA, Teresa (Mrs); SZYSZKO, Helena (Miss); MINCZEWSKI, Jerzy, prof., dr.

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1. Institute of Nuclear Research, Warszawa, ul. Koszykowa 75, Poland.

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1. Z Instytutu Medycyny Pracy wsi A.M.w Lublinie. Dyrektor: prof. dr med. Jozef Parnas. Z Zakladu Anatomii Patologicznej Akademii Medycznej w Lublinie. Kierownik: prof. dr med.Stanislaw Mahrburg (FERTILIZERS, effects, nitrogen compound azotniak, on internal organs after

inhalation in mice.)

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001754610018-8

KUDEJKO, Teresa; KULEJKO, Jan; SZYSZKO, Janusz; ZELAZOWSKI, Kazimierz

Granuloma gangraenescens. Przegl.derm. Warsz. 47 no.6:469-478

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dr Cz. Ryll-Hardzewski. Z Zakladu Anatomii Patologicznej A.M. v
Lublinie, Kierownik: prof. dr S.Mahrburg.
(GRANULOMA in inf & child)
(NOSE dis)

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Endothelioma of peritoneum. Description of two cases. Ann. Univ., Lublin sect.D 16:209-213 '61.

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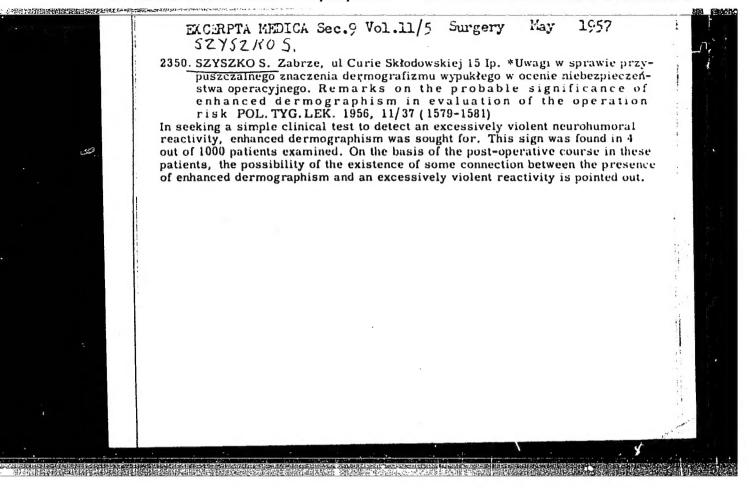
(MESOTHELIOMA) (PERITONEAL NEOPLASMS)

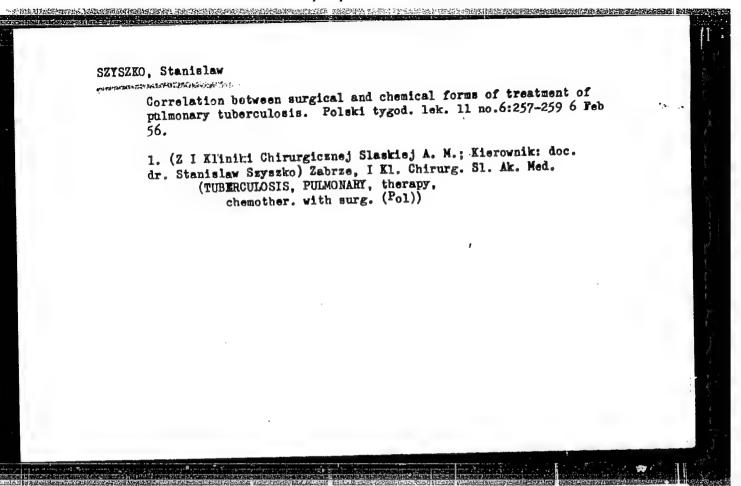
Excerpta Medica 3/4 sec 16 Apr 55 Cancer

1308. SZYSZKO S. and PLEWINSKI G. 1. Klin. Chir. Slaskiej Akad. med., Zabrze. Wartose rozpoznawcza próby Bolena Bolen's test Pol. Tyg. lek. 1954, 9/32 (1002-1003) Tables 2

Bolen's test was carried out in 102 confirmed cancer cases and in 337 non-cancer cases. In the first group there were 37% false negatives, while 23.7% false positives were seen in the 2nd group. In 36 women during the last months of pregnancy, or shortly after delivery, 27.8% false positives were found. A parallelism with the blood sedimentationrate could not be observed. Bolen's test is of very limited diagnostic value.

Szyszko - Zabrze





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Methods facilitating open heart surgery. Polski tygod. lek. 12 no.51:
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kierownik kliniki: doc. dr med. Stanislaw Szyszko, Adres: Zabrze, ul.
Curie- Skłodowskiej lo I Klin. Chir. Sl. A.M.
(HRART, artificial,
review (Pol))

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Preliminary studies on experimental transplantation autogenous granulations. Acta physiol pol 12 no.3:433-439 '61.

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(OXYGEN blood) (PORTAL VEINS physiol)
(SPLEEN physiol)

"APPROVED FOR RELEASE: 07/13/2001

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TOLAND F

Tadeusz TALIWODA, First Surgical Clinic of Silesian College of Medicine (I Klinika Chirurgiczna Slaskiej AM), Read Prof Dr Stanislaw SZYSZKO, Eabrze.

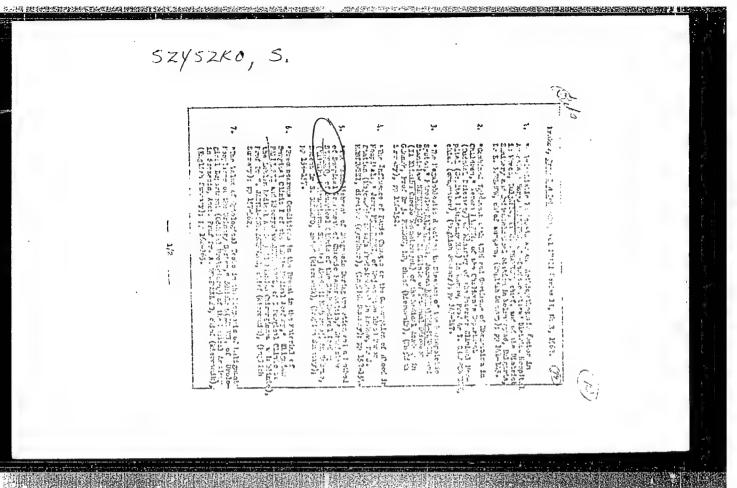
"Congenital Aplasis of Fulmonary Artery."

Warsaw, Polski Tygodnik Lekarski, Vol 17, No 46, 12 Nov 1962; pp 1792-1794.

Abstract [English summary modified]: Tetralogy of Fallot diagnosed in 7-year-old boy; severe functional circulatory impairment, constant cyanosis; operation revealed agencsis of pulmonary artery in addition to other defects; 3 Gm. of talcum put into pleural cavities to induce adhesion; much improvement in 2 years observation. Diagram of lesion, 1 Switts and 1 Polish reference.

1/1

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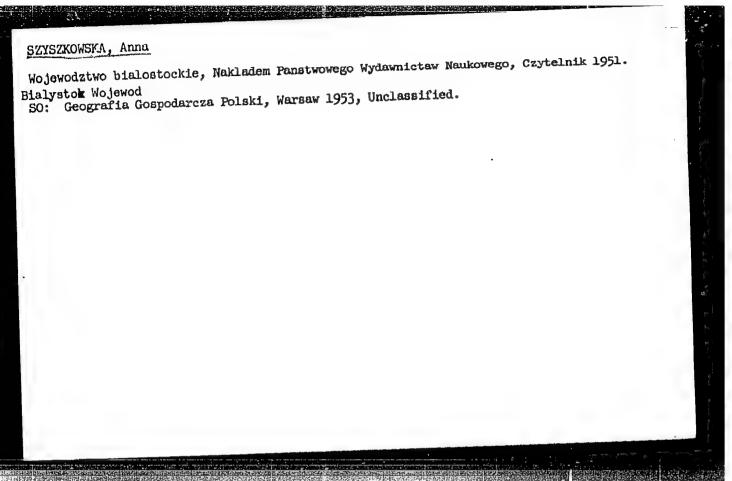
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i Zakladu Radiologii Slankiej MM v Zahrzu (pelniacy obowiazki
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Timashev. Izv.AN SSSR Ser.geog. no.3:71-73 My-Je '53. (MIRA 6:9)

(Szyszkowska, A.) (Bialystock Voivodeship, Poland-Description and travel)

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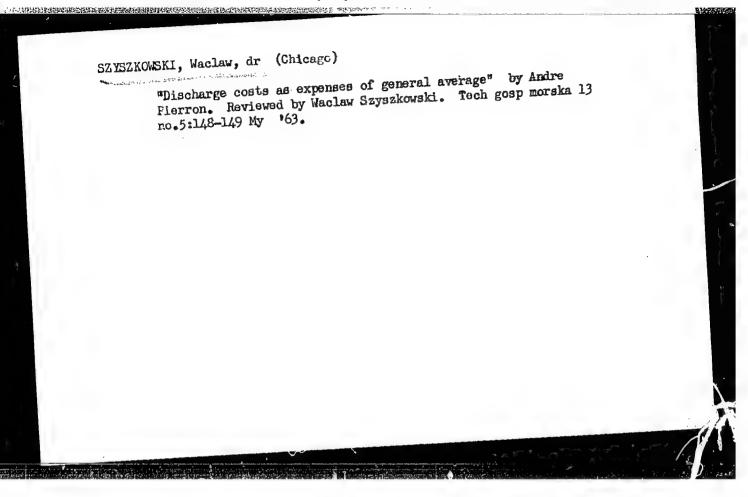
1. I Klinika Poloznictwa i Chorob Kobiecych AM w Warszawie Kierownik: prof. dr T. Bulski Poradnia Endokrynologiczna w Warszawie Kierownik: doc. dr J. Teter.

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1. Laboratory of Food Microbiology, College of Agriculture, Bialystok. Head: dr T. Wasilczuk.

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1. Z Zakladu Dermatologii i Wenerologii Studium Doskonalenia Lekarsy

W Bydgoszosy Kierownik Zakladui dr J. Kozlowski Adres: Bydgoszoz, Zaklad

W Bydgoszosy Kierownik Zakladui Doskonalenia Lekarsy, ul. Guris-Sklo-

Dermatologii i Wenerologii Studium Doskonalenia Lekarsy, ul. Guris-Sklo-

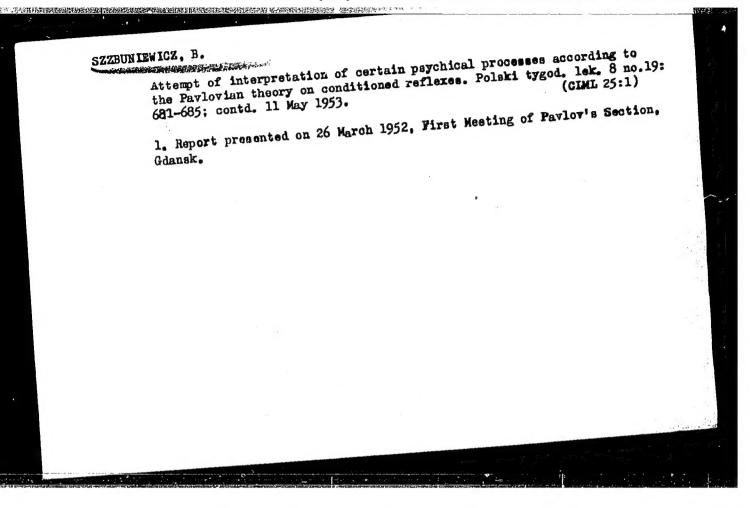
dowskiej 8.

(BLOOD PROTEINS, in various (is.

skin dis., review (Pol))

(SKIN DISEASES, blood in

proteins, review (Pol))
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